Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1-2. (Canceled)

3. (Currently Amended) A method for generating a constant envelope combined signal in a communications system, comprising: The method of claim 2, generating a similarity measurement further comprising:

generating a combined signal in a communications system that is a combination of a plurality of input signals;

generating a similarity measurement between each of the input signals and the combined signal by multiplying sample values of each of the input signals with corresponding values of the combined signal to generate products; products, and

summing the products to form the similarity measurement. measurement;

selecting ones of the input signals for attenuation based on the similarity measurement;

attenuating amplitudes of the selected ones of the input signals to generate attenuated input signals;

combining the attenuated input signals and other non-attenuated ones of the input signals to generate a constant envelope combined signal; and

outputting the constant envelope combined signal.

4. (Canceled)

5. (Currently Amended) A method for generating a constant envelope combined signal in a communications system, comprising: The method of claim 4,

generating a combined signal in a communications system that is a combination of a plurality of input signals;

generating a similarity measurement between each of the input signals and the combined signal by cross-correlating each of the input signals with the combined signal, cross-correlating each of the input signals further ~~comprising:~~ comprising

————————sweeping one of each of the input signals and the combined signal ~~pass~~ past each ~~other;~~ other, and

————————generating a dot product for each sweep increment between overlapping portions of each of the input signals and the combined ~~signal.~~ signal;

selecting ones of the input signals for attenuation based on the similarity measurement;

attenuating amplitudes of the selected ones of the input signals to generate attenuated input signals;

combining the attenuated input signals and other non-attenuated ones of the input signals to generate a constant envelope combined signal; and

outputting the constant envelope combined signal.

6.   (Canceled)

7.   (Currently Amended) A method for generating a constant envelope combined signal in a communications system, comprising: ~~The method of claim 2,~~

generating a combined signal in a communications system that is a combination of a plurality of input signals;

generating a similarity measurement between each of the input signals and the combined signal;

selecting ones of the input signals for attenuation based on the similarity measurement by ~~selecting ones of the input signals further comprising:~~

————————comparing the similarity measurements with each ~~other;~~ other, and

——————————selecting N number of input signals that correspond to N largest similarity

measurements, where N is a positive ~~integer.~~ integer;

       attenuating amplitudes of the selected ones of the input signals to generate

attenuated input signals;

       combining the attenuated input signals and other non-attenuated ones of the

input signals to generate a constant envelope combined signal; and

       outputting the constant envelope combined signal.

8.   (Original) The method of claim 7, further comprising determining a value for

N by empirical analysis of combined signals.

9-15.   (Canceled)

16.   (Currently Amended) An apparatus that outputs a constant envelope

combined signal in a communications system, comprising:

       a controller that controls generating of a combined signal in a communications

system that is a combination of a plurality of input signals, and attenuating of amplitudes of

selected ones of the input signals to generate attenuated input signals, the controller

comprising:

       a similarity measurement device that generates a similarity

measurement between each of the input signals and the combined signal, and

       an attenuation value generator that selects ones of the input signals

based on the similarity measurement; and

       a memory coupled to the controller,

       ~~The apparatus of claim 15,~~ wherein the similarity measurement device

generates the similarity measurement by multiplying sample values of each of the input

signals with corresponding values of the combined signal to generate products, and summing

the products to form the similarity ~~measurement.~~ measurement, and

the attenuated input signals and other non-attenuated ones of the input signals may be combined to form for output a constant envelope combined signal.

17.   (Canceled)

18.   (Currently Amended) An apparatus that outputs a constant envelope combined signal in a communications system, comprising:

a controller that controls generating of a combined signal in a communications system that is a combination of a plurality of input signals, and attenuating of amplitudes of selected ones of the input signals to generate attenuated input signals, the controller comprising:

a similarity measurement device that generates a similarity measurement between each of the input signals and the combined signal, and

an attenuation value generator that selects ones of the input signals based on the similarity measurement; and

a memory coupled to the controller,

wherein the similarity measurement device generates the similarity measurement by cross-correlating each of the input signals with the combined signal, The apparatus claim 17, wherein the cross-correlating comprises:

comprising sweeping one of each of the input signals and the combined signal pass past each other; other, and

generating a dot product for each sweep increment between overlapping portions of each of the input signals and the combined signal. signal, and

the attenuated input signals and other non-attenuated ones of the input signals may be combined to form for output a constant envelope combined signal.

19.   (Canceled)

20.   (Currently Amended) An apparatus that outputs a constant envelope combined signal in a communications system, comprising:

a controller that controls generating of a combined signal in a communications system that is a combination of a plurality of input signals, and attenuating of amplitudes of selected ones of the input signals to generate attenuated input signals, the controller comprising:

a similarity measurement device that generates a similarity measurement between each of the input signals and the combined signal, and

an attenuation value generator that selects ones of the input signals based on the similarity measurement; and

a memory coupled to the controller,

~~The apparatus of claim 15,~~ wherein the attenuation value generator selects the ones of the input signals ~~by:~~

——————— by comparing the similarity measurements with each ~~other;~~ other, and

———————selecting N number of input signals that correspond to N largest similarity measurements, where N is a positive ~~integer.~~ integer, and

the attenuated input signals and other non-attenuated ones of the input signals may be combined to form for output a constant envelope combined signal.

21.   (Original) The apparatus of claim 20, wherein a value for N is determined by empirical analysis of combined signals.

22-27. (Canceled)